

## AUTO-DETECTION OF ISDN BRI SERVICES

### ABSTRACT OF THE DISCLOSURE

5        A method and apparatus for auto-detection of ISDN BRI services available for use by terminal equipment is disclosed. This auto-detection provides a variety of simulated call activity stimuli to the ISDN switch peered with the terminal equipment, thus exercising secondary ISDN features such as call conferencing, call forward, call transfer, and X.25/D channel data transfer capability in a manner that can be detected  
10      by the terminal equipment. For instance, the call conferencing feature can be detected by having the terminal equipment place a call to it's own directory number using one B-channel, answering the call on the other B-channel, and then attempting to add a third party to this call. By evaluating the messages returned from the switch during the attempted third party addition, the auto-detection process can determine whether  
15      the call conferencing feature is available.

Using this and similar procedures, initial setup, configuration, use, and troubleshooting of an ISDN connection can be greatly simplified. Setup and configuration can be automated to default to include all detected features. Or, the detected features can be displayed in a network management agent, allowing  
20      customized local activation of the available features.